

Recombinant Mouse Prdx1 Protein, Myc/DDK-tagged

Cat. No. Prdx1-5101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length peroxiredoxin 1 (Prdx1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H ₂ O ₂ . Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation
Molecular Mass	22.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Prdx1 peroxiredoxin 1 [Mus musculus (house mouse)]

Official Symbol Prdx1

Synonyms

PRDX1; peroxiredoxin 1; peroxiredoxin-1; thioredoxin peroxidase 2; osteoblast specific factor 3; osteoblast-specific factor 3; macrophage 23 Kd stress protein; macrophage 23kDa stress protein; macrophase stress protein 22kDa; macrophase stress protein 23 kd; proliferation-associated gene A; macrophage 23 kDa stress protein; Trx dependent peroxide reductase 2; thioredoxin dependent peroxide reductase 2; thioredoxin-dependent peroxide reductase 2; PAG; OSF3; Paga; Prxl; TDX2; TPxA; prx1; MSP23; NkefA; OSF-3; Prdxl; Tdpx2

Gene ID 18477

mRNA Refseq NM_011034

Protein Refseq NP_035164

UniProt ID P35700

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